WP on Transport Statistics Geneva, June 2019



International Road Federation Fédération Routière Internationale Federación Internacional de Carreteras

IRF World Road Statistics

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The International Road Federation

Global, Independent, Not-for-profit Organisation Established in 1948. Based in Geneva, Switzerland. UN ECOSOC status since 1951.

Assisting **public** and **private** stakeholders in Roads & Mobility sector for the past **70 years** with:



3 Strategic Pillars of Activities

- 1. Knowledge
- 2. Connections
- 3. Advocacy



Thematic Streams







IRF Work: Examples

TOOLS



Accident Data Recorder

TRAINING COURSES



Road Safety Management Road Safety Audits Data Collection & Management

PROJECTS & DATA







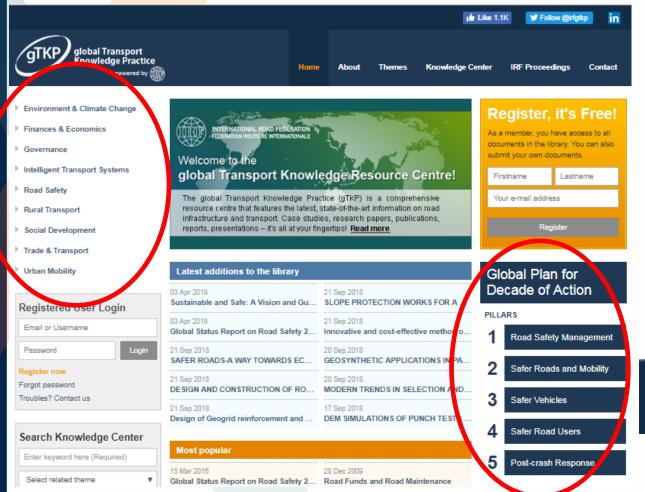


KNOWLEDGE PLATFORM



Hosting UNRSC resources

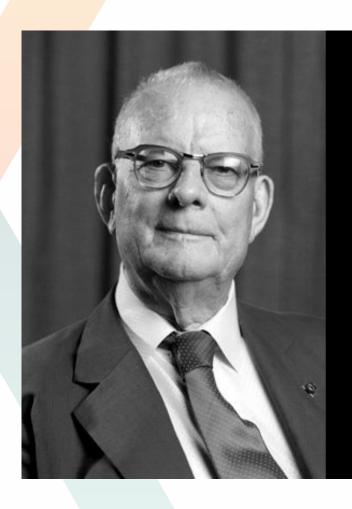
GTKP Website and Knowledge Centre



- 9 Themes
- 270 searchable pages
- 2.300 documents
- ≈ 7.000 Subscribers
- Multiple languages
- Free access

www.gtkp.com





"Without data you're just another person with an opinion."

> W. Edwards Deming, Data Scientist

IRF World Road Statistics



Road Networks



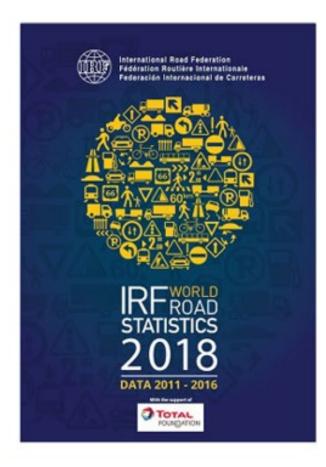
Country Profiles



Production, Import, First Registration & Export of Motor Vehicles



Road Traffic Volumes





Road Accidents



Multimodal Traffic Comparisons



Vehicles in Use



Road Expenditures & Revenues

www.worldroadstatistics.org

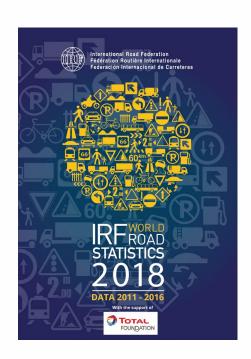
World Road Statistics

- Edited yearly since 1964 (55 years)
- More than 205 countries, 45 indicators, 9 sections
- Data collected from primary statistical sources (Ministries, Road Authorities, National Statistical Offices)
- Definitions based on the Glossary of Transport
 Statistics (ITF/EUROSTAT/UNECE) and The World Bank
- Data used by Governments, Investment & Development Banks, Public & Private Companies, Research Institutes
 & Universities, NGOs, International Organizations, etc.



WRS – Methodology

- Annual survey via questionnaire in three languages (English, French and Spanish) covering the past 6 years
- The collected data is complemented by national statistics from secondary sources such as official yearbooks
- Data is verified (comparison with other sources, reconciliation of definitions / units of measurements, etc.)





WRS – Example Indicators

Road Network

- Total length of road network (Km)
- Percentage of paved road
- Density of total road network (Km/Km2)

Road Traffic

- Annual traffic volume per vehicle category (Mio Veh-Km)
- Annual traffic volume per road network (Mio Veh-Km)

Multimodal Traffic Comparisons

- Inland surface freight transport per mode (Mio T-Km)
- Inland surface passenger transport per mode (Mio P-Km)

Vehicles in Use

- Vehicles in use per category (n)
- Passenger cars per 1,000 people (n/1,000 pop)
- Vehicles per km of road (n/Km)

WRS – Example Indicators

Road Accidents

- Persons killed in road accidents per 100,000 people
- Injury accidents per 100 Mio Veh-Km
- Number of persons killed (n) by road network

Production, Imports, 1st Registrations and Exports of Motor Vehicles

 Number of vehicles produced, imported (new & used), 1st Registered and exported (new & used) per vehicle category

Road Expenditures & Revenues

- Total road expenditure per administrative level (Mio USD)
- Total road expenditure per category (Mio USD)
- Total Road Revenue per category (Mio USD)

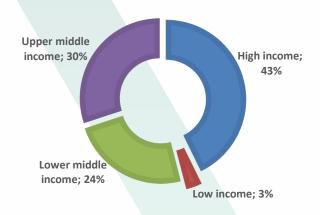
Energy

- Diesel prices (USD cents per litre)
- Super gasoline prices (USD cents per litre)

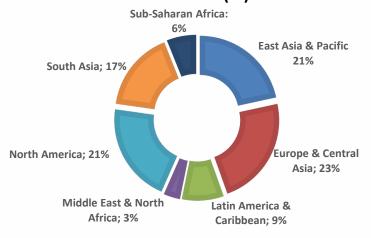
Global Road Network

- High income countries account for 43% of global road network while low income countries only account for 3%.
- The EU accounts for 16% of global road network, whilst only encompassing 3% of global land mass (1.37km/km²).
- In stark contrast, sub-Saharan Africa constitutes only 6% of global road network, whilst representing around 18% of global land mass (0.10km/km²).

TOTAL ROAD NETWORK DISTRIBUTION BY INCOME GROUPS (%)



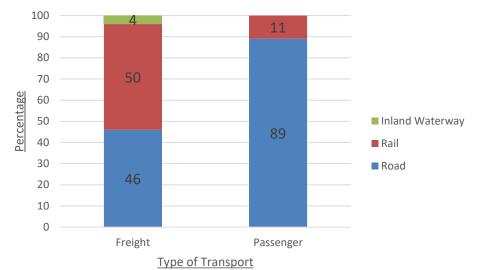
TOTAL ROAD NETWORK DISTRIBUTION BY REGIONS (%)



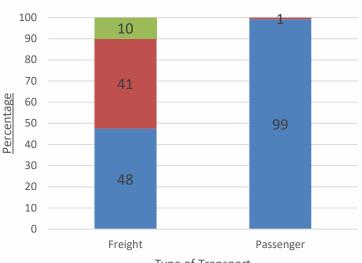
Multimodal Traffic

- Freight transport is almost evenly split between road and rail in both Europe/ Central Asia and North America.
- Passenger transport in these regions is essentially all by road with 89% of passengers travelling by road in Europe/ Central Asia and 99% in North America.





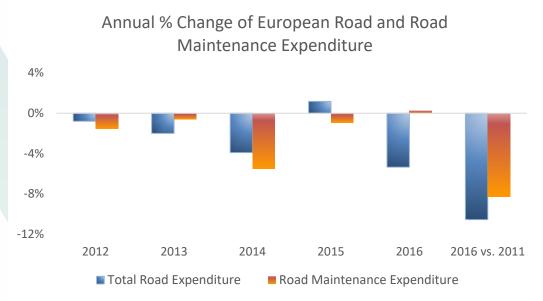
Freight (Mio Ton-Km) vs. Passenger (Mio Pass-Km) Transport (%) in North America



Type of Transport

European Road Expenditure

- Total European road expenditure (investments, maintenance and other costs) in 2016 decreased by 11% vs. 2011, driven by a significant expenditure decline in Spain and France, partially offset by an increase in UK spending.
- European road maintenance expenditure in 2016 decreased by 8% vs. 2011,
 primarily driven by decreased spending in UK and France.
 - Interesting to highlight that the UK shows a decrease in road maintenance expenditure whilst total road expenditure is increasing. There was a clear focus on new road investments during the 2011-2016 period, with UK road investments being almost double their road maintenance expenditure.



IRF Global Road Data Warehouse



- Multifunction on-line data platform
- IRF datasets + Dashboards (by country / region)
- Capacity to integrate additional datasets from other sources. Opportunity to collaborate.



Dashboard Example - Morocco

World Road Statistics - Africa Road Safety Dashboard (All data is reported directly from official sou

Morocco

Killed persons in road accidents per 100,000 population

10.7

Most recent year 2016

D

Injury accidents per 100,000 population

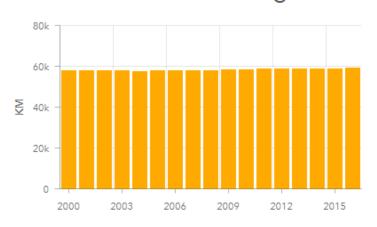


Most recent year 2016

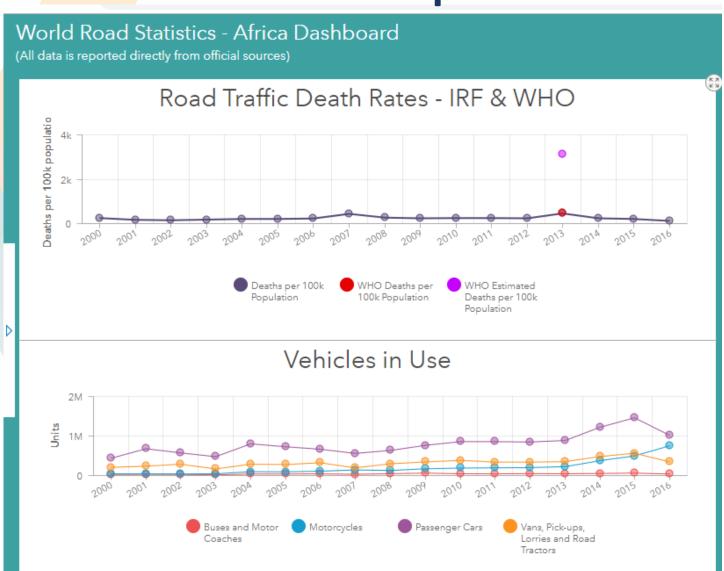
Persons killed in road accidents



Total Network Length



Dashboard Example - Africa





Thank you!

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